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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/653,997	09/04/2003	Katsuhiko Miki	242098US-557-557-3-CONT	4579
22850	7590	11/09/2006	EXAMINER	
C. IRVIN MCCLELLAND OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			KOHNER, MATTHEW J	
			ART UNIT	PAPER NUMBER
			3653	

DATE MAILED: 11/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/653,997

Applicant(s)

MIKI, KATSUHIKO

Examiner

Matthew J. Kohner

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 28 August 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 55-79 is/are pending in the application.
- 4a) Of the above claim(s) 55-65, 68, 70, 72, 74, 76 and 78 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 66, 67, 71, 73, 75 and 77 is/are rejected.
- 7) ☒ Claim(s) 69 and 79 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 9/25/06.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 66, 67, 71, 75 and 77 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,278,858 to Suga et al. (*hereinafter* “Suga”).

In regard to claims 66, 67, 71, 75 and 77, Suga discloses an image forming apparatus comprising:

- an image forming device (col. 1, line 10) configured to form an image on a sheet;
- a sheet feeding device configured to convey the sheet to said image forming device, said sheet feeding device including an axis, a driving gear configured to rotate said axis and supporting said axis at one side thereof (See e.g. Fig. 2-5), a gear engaged with said driving gear, a feed roller (51) and a separation member (53) being configured to be pressed against said feed roller at a pressure applied between said feed roller and said separation member; and
- a pressing device (91) configured to cyclically change the pressure while the sheet is conveyed between said feed roller and said separation member (col. 7, line 37 – col. 9, lines 45)

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such that a plurality of sheets conveyed between said feed roller and said separation member are separated and individually conveyed to said image forming device.

wherein said sheet separation member is a reverse roller upwardly and elastically supported by said axis, and disposed at a free end side of said axis via a torque limiter (31), so as to be rotated in a sheet feeding direction and a direction opposite the sheet feeding direction (col. 7, lines 21-25).

In regard to claim 67, see Fig. 3 where pressing member (91) at the side of separation roller (53).

In regard to claim 71, Suga discloses a sheet guide (see Fig. 2).

In regard to claims 75 and 77, Suga discloses a torque limiter (62).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 73 is rejected under 35 U.S.C. 103(a) as being unpatentable over Suga.

In regard to claim 73, Suga does not specifically disclose that the feed roller, friction roller and pressing unit are integrally constructed as a unit. However, Suga does disclose the claimed invention except for the integral construction. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have constructed the parts integrally since it has been held that forming in one piece an article that formerly has been formed in

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several pieces and put together involves only routing skill in the art. *Howard v. Detroit Stove Works* 150 U.S. 164 (1893).

***Allowable Subject Matter***

Claim 69 and 79 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Amendment / Arguments***

Applicant has amended the claims 66, 67, 75, 77 and added new claim 79. Applicant's arguments filed Aug. 28, 2006 have been fully considered but they are not persuasive. Applicant has argued the claimed invention is distinguishable from Suga, since the pressing device cyclically changes the pressure while the sheet is conveyed between the feed roller and the separation member. Applicant has argued in Suga, the spring receiver 91 stays pressing the separation roller 53 at the higher pressure P2 while the sheet feeding roller 51 is feeding a sheet (Applicant's remarks, page 14). Examiner disagrees with Applicant's assertion that the spring receiver stays pressing at the higher pressure while the feed roller is feeding the sheet. At least as shown in Fig. 7 (f) and (g), the sheet is conveyed between the feed roller and the separation member and the pressure is varied from P2 to P1. Further, the separation roller in Fig. 7 (f) and (g) is continuing to rotate to separate sheets. Therefore, Suga meets the claim language which requires, "a pressing device configured to cyclically change the pressure while the sheet is conveyed between said feed roller and said separation member such that a plurality of sheets

conveyed between said feed roller and said separation member are separated and individually conveyed to said image forming device...”

Hence the rejection is maintained.

### *Conclusion*

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Kohner whose telephone number is 571-272-6939. The examiner can normally be reached on Mon-Fri 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on 571-272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew J. Kohner  
Examiner  
Art Unit 3653

mjk



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